

CPC**COOPERATIVE PATENT CLASSIFICATION****F16M****FRAMES, CASINGS, OR BEDS OF ENGINES OR OTHER MACHINES OR APPARATUS NOT SPECIFIC TO AN ENGINE, MACHINE, OR APPARATUS PROVIDED FOR ELSEWHERE STANDS OR SUPPORTS****NOTE**

Attention is drawn to the following places:

[B21B 31/02](#) Metal-rolling stand frames

[G01D 11/30](#) Supports specially adapted for indicating or recording instruments.

Guide heading:**F16M 1/00****Frames or casings of engines, machines or apparatus
Frames serving as machinery beds****F16M 1/02**

. for reciprocating engines or similar machines

F16M 1/021

. . for housing crankshafts

F16M 1/022

. . . of tunnel type, i.e. wherein the crankshaft can only be introduced axially (for engines or machines with star-shaped cylinder arrangement [F16K 1/023](#))

F16M 1/023

. . . specially adapted for engines or machines with star-shaped cylinder arrangement

F16M 1/024

. . . facilitating assembly of power-transmitting parts of engines or machines, e.g. of connecting-rods

F16M 1/025

. . . Assembling bearings in casings, e.g. having anchor bolts

F16M 1/026

. . for housing movable engine or machine parts other than crankshafts, e.g. valve-gear housings

F16M 1/04

. for rotary engines or similar machines

F16M 1/08

. characterised by being built-up of sheet material or welded parts

F16M 3/00**Portable or wheeled frames or beds, e.g. for emergency power-supply aggregates, compressor sets (construction of vehicles in general [B60](#) to [B62](#))****F16M 5/00****Engine beds, i.e. means for supporting engines or machines on foundations****F16M 7/00****Details of attaching or adjusting engine beds, frames, or supporting-legs on foundation or base**

Attaching non-moving engine parts, e.g. cylinder blocks (elastic or equivalent mounting for absorbing vibrations [F16F](#) , especially [F16F 15/04](#))

F16M 9/00	Special layout of foundations with respect to machinery to be supported (foundations for machinery E02D 27/44)
F16M 11/00	Stands or trestles as supports for apparatus or articles placed thereon { Stands for scientific apparatus such as gravitational force meters } (without heads F16K 13/00 ; easels or stands for blackboard or the like A47B 97/04 ; show-stands A47F 7/00 ; for workmen E04G 1/32 ; { sockets or holders for poles or posts E04H 12/22 } ; supporting, suspending for lighting devices F21V 21/00 ; special modifications for particular apparatus or articles, see the appropriate subclasses)
F16M 11/02	. Heads
F16M 11/04	.. Means for attachment of apparatus Means allowing adjustment of the apparatus relatively to the stand
F16M 11/041	... { Allowing quick release of the apparatus }
	<u>WARNING</u> This group is not complete pending reclassification; see also group F16M 11/04
F16M 11/043	... { Allowing translations }
	<u>WARNING</u> This group is not complete pending reclassification; see also group F16M 11/04
F16M 11/045 { adapted to left-right translation movement }
	<u>WARNING</u> This group is not complete pending reclassification; see also group F16M 11/04
F16M 11/046 { adapted to upward-downward translation movement }
	<u>WARNING</u> This group is not complete pending reclassification; see also group F16M 11/04 and F16M 11/24
F16M 11/048 { adapted to forward-backward translation movement }
	<u>WARNING</u> This group is not complete pending reclassification; see also group F16M 11/04 and F16M 11/38
F16M 11/06	... allowing pivoting
F16M 11/08 around a vertical axis, { e.g. panoramic heads (F16M 11/12 takes precedence) }
F16M 11/10 around a horizontal axis [(F16M 11/12 takes precedence)]

F16M 11/105 { the horizontal axis being the roll axis, e.g. for creating a landscape-portrait rotation }

WARNING

Not complete; see also [F16M 11/10](#)

F16M 11/12 in more than one direction

F16M 11/121 { constituted of several dependent joints }

WARNING

This group is not complete pending reclassification; see also group [F16M 11/12](#)

F16M 11/123 { the axis of rotation intersecting in a single point, e.g. by using gimbals }

WARNING

This group is not complete pending reclassification; see also group [F16M 11/12](#)

F16M 11/125 { for tilting and rolling ([F16M 11/14](#) takes precedence) }

WARNING

This group is not complete pending reclassification; see also group [F16M 11/12](#)

F16M 11/126 { for tilting and panning ([F16M 11/14](#) takes precedence) }

WARNING

This group is not complete pending reclassification; see also group [F16M 11/12](#)

F16M 11/128 { for panning and rolling ([F16M 11/14](#) takes precedence) }

WARNING

This group is not complete pending reclassification; see also group [F16M 11/12](#)

F16M 11/14 with ball-joint (ball-jointed hinges [F16C 11/06](#)) { adjustable mountings employing universal joints for lighting devices [F21V 21/26](#) to [F21V 21/30](#) }

F16M 11/16 . . . Details concerning attachment of head-supporting legs, with or without actuation of locking members thereof

F16M 11/18 . . . with mechanism for moving the apparatus relatively to the stand [N C1202]

F16M 11/20 . . . Undercarriages with or without wheels

F16M 11/2007 . . . { comprising means allowing pivoting adjustment }

WARNING

This group is not complete pending reclassification; see also group [F16M 11/06](#) , [F16M 11/08](#) , [F16M 11/10](#) , [F16M 11/12](#) , [F16M 11/14](#) depending on the type of movement allowed

F16M 11/2014 ... { around a vertical axis ([F16M 11/2035](#) takes precedence) }

WARNING

This group is not complete pending reclassification; see also group [F16M 11/08](#)

F16M 11/2021 ... { around a horizontal axis ([F16M 11/2035](#) takes precedence) }

WARNING

This group is not complete pending reclassification; see also group [F16M 11/10](#)

F16M 11/2028 { for rolling, i.e. for creating a landscape-portrait rotation }

WARNING

Not complete; see also [F16M 11/10](#)

F16M 11/2035 ... { in more than one direction }

WARNING

This group is not complete pending reclassification; see also group [F16M 11/12](#)

F16M 11/2042 { constituted of several dependent joints }

WARNING

This group is not complete pending reclassification; see also group [F16M 11/12](#)

F16M 11/205 { the axis of rotation intersecting in a single point e.g. gimbals }

WARNING

This group is not complete pending reclassification; see also group [F16M 11/12](#)]

F16M 11/2057 { for tilting and rolling ([F16M 11/2078](#) takes precedence) }

WARNING

This group is not complete pending reclassification; see also group [F16M 11/12](#)

F16M 11/2064 { for tilting and panning ([F16M 11/2078](#) takes precedence) }

WARNING

This group is not complete pending reclassification; see also group [F16M 11/12](#)

F16M 11/2071 { for panning and rolling ([F16M 11/2078](#) takes precedence) }

WARNING

This group is not complete pending reclassification; see also group [F16M 11/12](#)]

F16M 11/2078 { with ball-joint (ball-jointed hinges [F16C 11/06](#)) }

WARNING

This group is not complete pending reclassification; see also group [F16M 11/14](#)]

F16M 11/2085 . . { comprising means allowing sideward adjustment, i.e. left-right translation of the head relatively to the undercarriage }

WARNING

This group is not complete pending reclassification; see also group [F16M 11/04](#)

F16M 11/2092 . . { comprising means allowing depth adjustment, i.e. forward-backward translation of the head relatively to the undercarriage }

WARNING

This group is not complete pending reclassification; see also group [F16M 11/04](#) and [F16M 11/38](#)

F16M 11/22 . . with approximately constant height, e.g. with constant length of column or of legs ([F16M 11/42](#) takes precedence)

F16M 11/24 . . changeable in height or length of legs, also for transport only, { e.g. by means of tubes screwed into each other } ([F16M 11/42](#) takes precedence)

F16M 11/242 . . . { by spreading of the legs ([F16M 11/32](#) takes precedence) }

WARNING

This group is not complete pending reclassification; see also group [F16M 11/24](#) or [F16M 11/32](#)]

F16M 11/245 { Members limiting spreading of legs, e.g. "umbrella legs"; (for supports with three or more telescoping legs [F16M 11/34](#)) }

WARNING

this group is not complete pending a reorganisation, see also [F16M 11/24](#) and [F16M 11/34](#)

F16M 11/247 { Members preventing slipping of the feet (for supports with three or more telescoping legs [F16M 11/36](#)) }

WARNING

this group is not complete pending a reorganisation, see also [F16M 11/24](#) and [F16M 11/36](#)

F16M 11/26 . . . by telescoping, with or without folding (details concerning the constructional features of telescoping parts only [F16B 7/10](#))

F16M 11/28 Undercarriages for supports with one single telescoping pillar

F16M 11/30 with co-moving side-struts

F16M 11/32 Undercarriages for supports with three or more telescoping legs

F16M 11/34 Members limiting spreading of legs, { e.g. "umbrella legs" }

F16M 11/36 Members preventing slipping of the feet

F16M 11/38 . . . by folding, { e.g. pivoting or scissors tong mechanisms }

F16M 11/40 . . . by means of coilable or bendable legs { or spiral shaped legs }

F16M 11/42 . with arrangement for propelling the support { stands on wheels }

F16M 11/425 . . { along guiding means }

WARNING

This group is not complete pending reclassification; see also group [F16M 11/42](#)]

F16M 13/00 **Other supports for positioning apparatus or articles** (heads thereof [F16M 11/02](#) ; { undercarriages thereof [F16M 11/20](#) } ; adapted to be stuck in the ground [A45F 3/44](#) ; { sockets or holders for poles or posts [E04H 12/22](#) })
Means for steadying hand-held apparatus or articles { (supports for measuring instruments [G01D 11/30](#) ; supports for casings of remote control switching devices [H01H 9/025](#)) }

F16M 13/005 . { integral with the apparatus or articles to be supported }

WARNING

This group is not complete pending reclassification; see also group [F16M 13/00](#)

F16M 13/02 . for supporting on, or attaching to, an object, e.g. tree, gate, window-frame, cycle

F16M 13/022 . . { repositionable }

WARNING

This group is not complete pending reclassification; see also group [F16M 13/02](#)

F16M 13/025 . . { Corner supports }

WARNING

This group is not complete pending reclassification; see also group [F16M 13/02](#)]

F16M 13/027 .. { Ceiling supports }

WARNING

this group is not complete pending a reorganisation, see also [F16M 13/02](#)

F16M 13/04 . for supporting on, or holding steady relative to, a person, e.g. by chains, { e.g. rifle butt or pistol grip supports, supports attached to the chest or head (apparatus or arrangements for taking photographs or for projecting or viewing them [G03B](#)) }

F16M 13/06 . also serviceable for other purposes, e.g. to be used as spade, chair, ski-stick

F16M 13/08 .. for use as a walking-cane

Guide heading:

F16M 2200/00 Details of stands or supports

F16M 2200/02 . Locking means
 F16M 2200/021 .. for rotational movement
 F16M 2200/022 ... by friction
 F16M 2200/024 ... by positive interaction, e.g. male-female connections
 F16M 2200/025 .. for translational movement
 F16M 2200/027 ... by friction
 F16M 2200/028 ... by positive interaction, e.g. male-female connections

F16M 2200/04 . Balancing means
 F16M 2200/041 .. for balancing rotational movement of the head
 F16M 2200/042 ... for panning movement
 F16M 2200/044 .. for balancing rotational movement of the undercarriage
 F16M 2200/045 ... for panning movement
 F16M 2200/047 .. for balancing translational movement of the head
 F16M 2200/048 .. for balancing translational movement of the undercarriage

F16M 2200/06 . Arms
 F16M 2200/061 .. Scissors arms
 F16M 2200/063 .. Parallelogram arms
 F16M 2200/065 .. with a special structure, e.g. reinforced or adapted for space reduction
 F16M 2200/066 .. being part of the head
 F16M 2200/068 .. being part of the undercarriage

F16M 2200/08 . Foot or support base